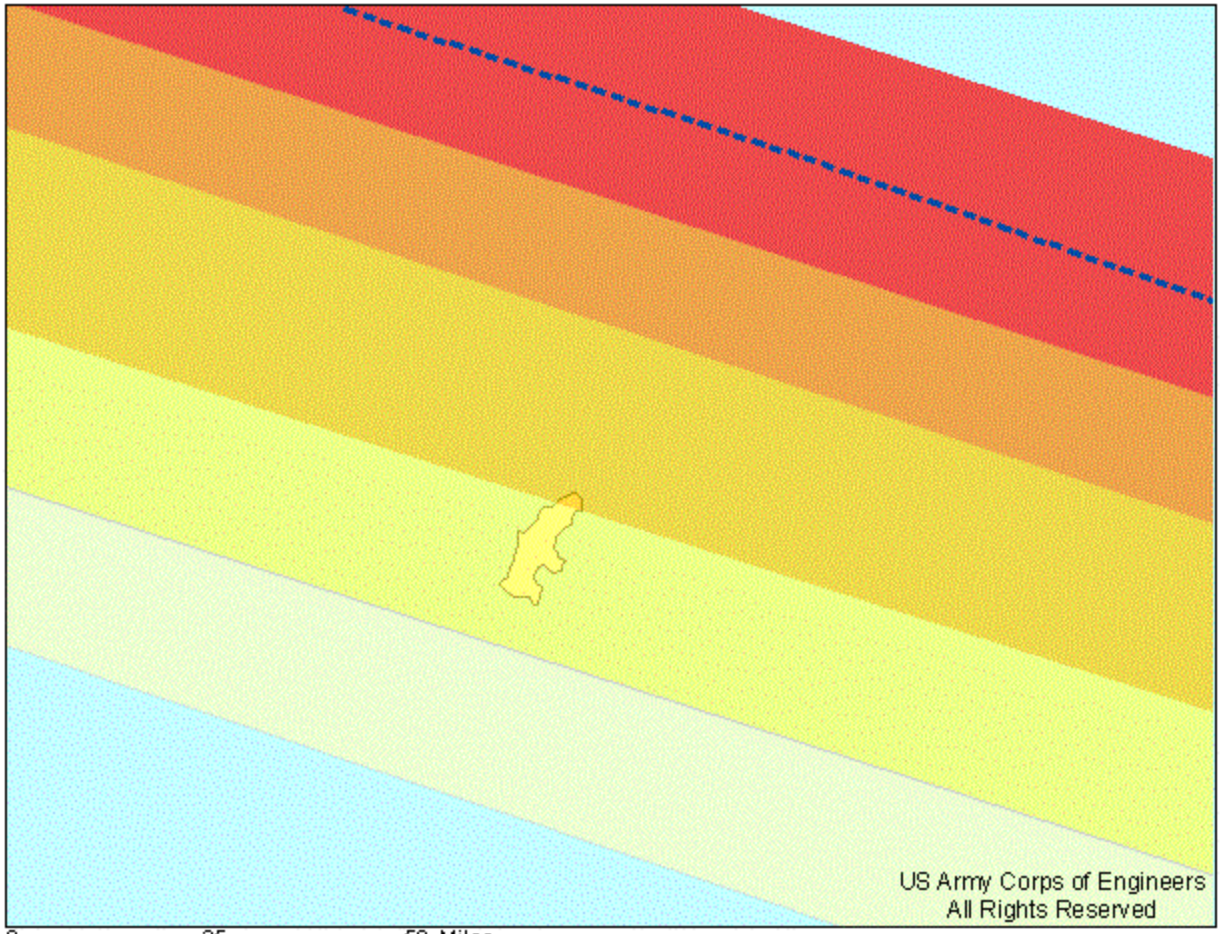
US Army Corps of Engineers

Typhoon Melor Projected Damage Areas

Landfall Expected In About 30 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 4 storm passing offshore north of Saipan.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 4 storm passing offshore north of Saipan. These projections are based on information from the NHC (1700 EDT 10/01/2009) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Typhoon Melor Projected Damage Areas

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

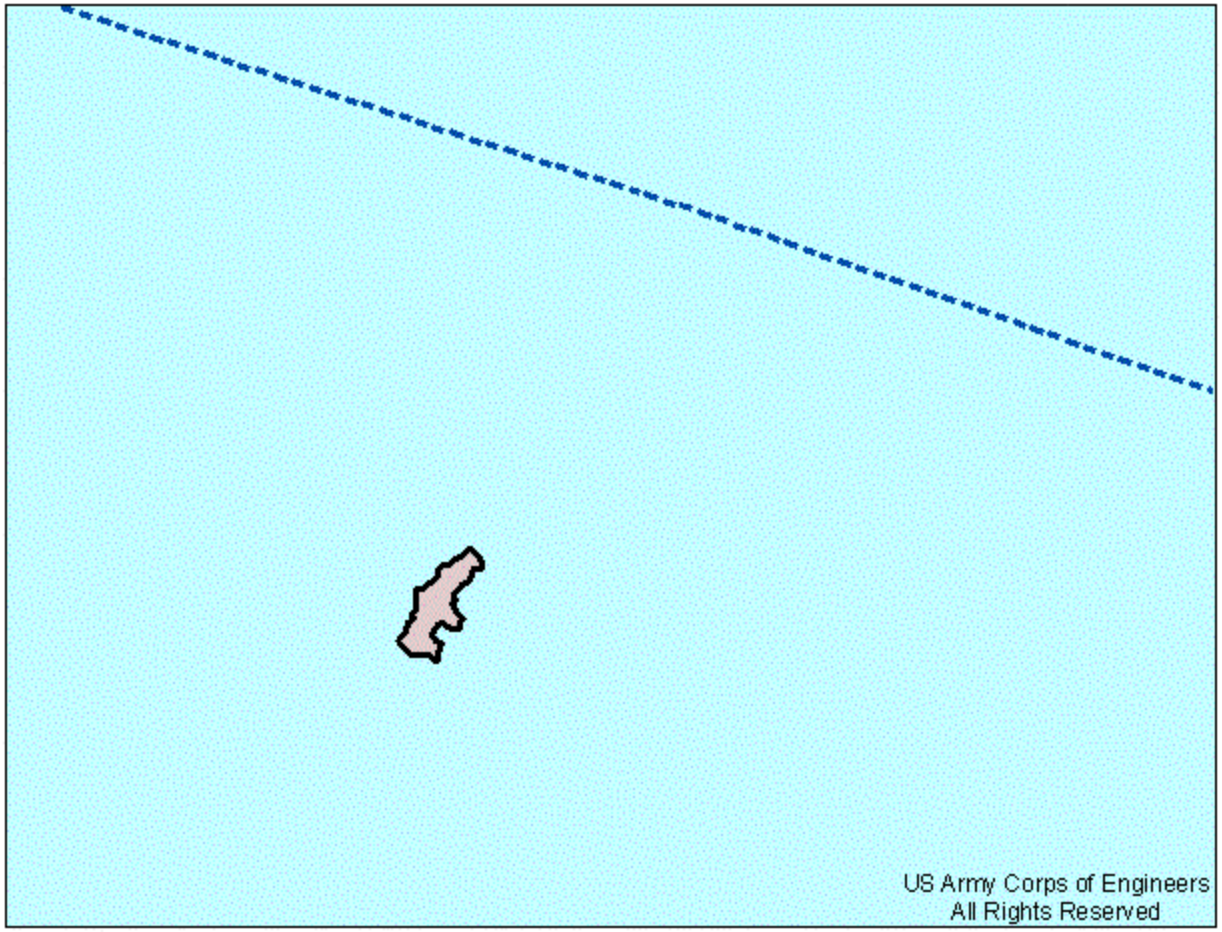
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Typhoon Melor Debris Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

SAIPAN - 90,000 Yards

Model results per Geographic Unit on following page

This model is based on a Category 4 storm passing offshore north of Saipan.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making passing north of Saipan. These projections are based on information from the NHC (1700 EDT 10/01/2009) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Melor Debris Model

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Typhoon Melor Debris Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!

Island	Yards per Island	Geographic Unit	Yards per Geographic Unit
COMMONWEALTH OF NORTHERN		SIAPAN	90,000
COMMONWEALTH	90,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Typhoon Melor Debris Model

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

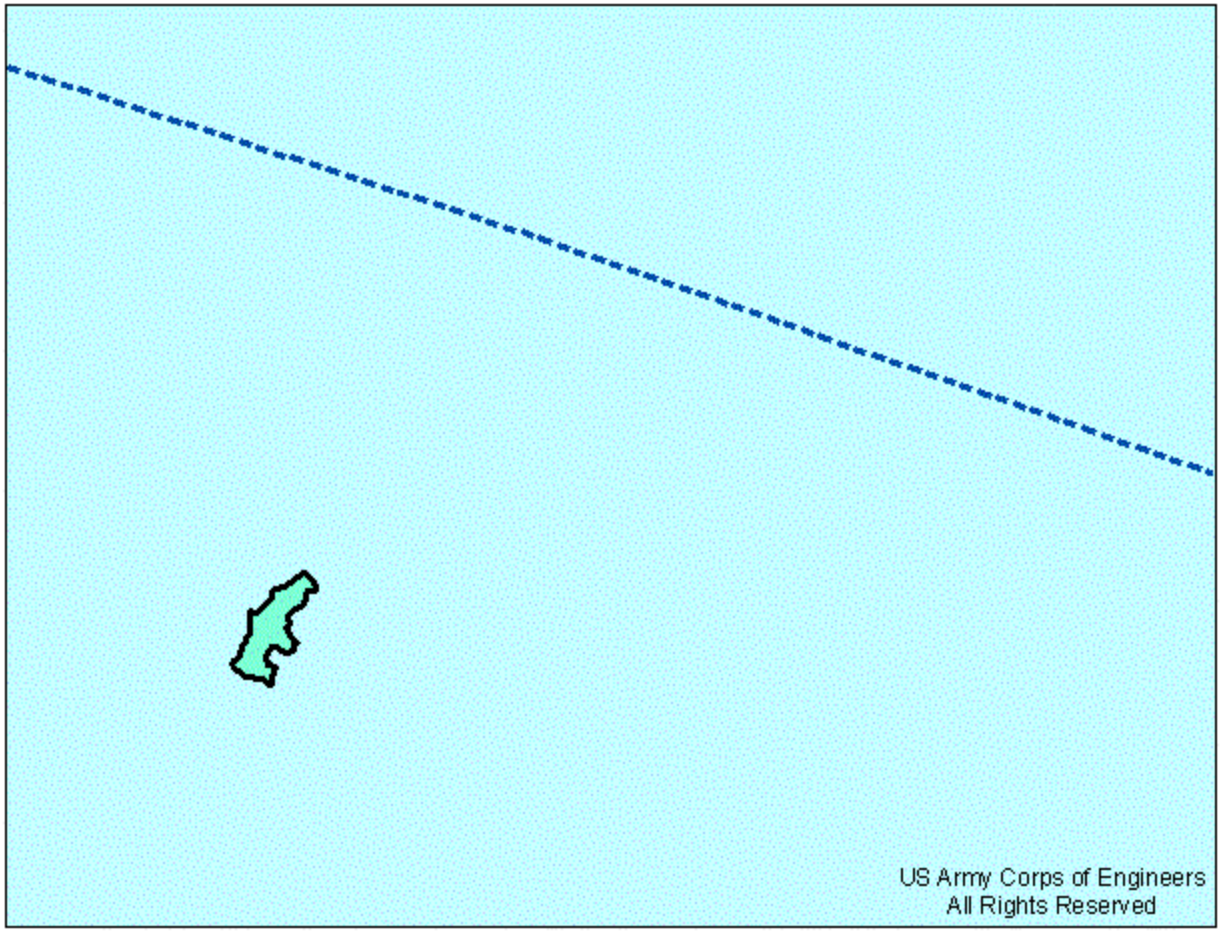
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Typhoon Melor Commodities Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
SAIPAN - 6 Truckloads

Model results per Geographic Unit on following page

This model is based on a Category 4 storm passing offshore north of Saipan.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm passing offshore north of Saipan. These projections are based on information from the NHC ***(1700 EDT 10/01/2009)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Melor Commodities Model	
Generated By: Siemsen, LRL 2000 EDT 10/01/2009	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Typhoon Melor Commodities Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!

Island	Truckloads per Island	Geographic Unit	Truckloads per Geographic Unit
COMMONWEALTH OF NORTHERN		SIAPAN	6
COMMONWEALTH	6		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Typhoon Melor Commodities Model

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

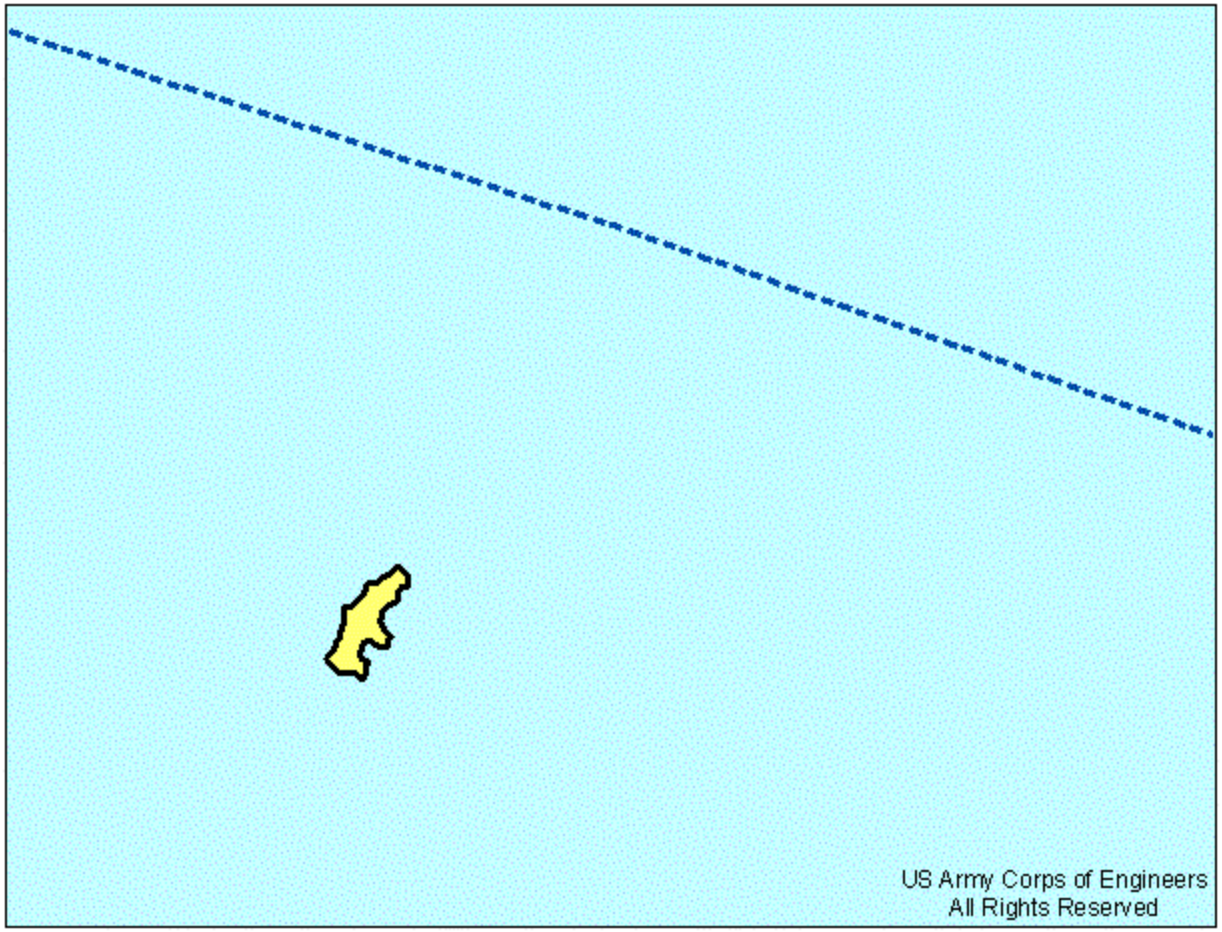
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Typhoon Melor Population Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Population Model Results

SAIPAN - 66,000

Model results per Geographic Unit on following page

This model is based on a Category 4 storm passing offshore north of Saipan.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm passing offshore north of Saipan. These projections are based on information from the NHC (1700 EDT 10/01/2009) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Typhoon Melor Population Model	
Generated By: Siemsen, LRL 2000 EDT 10/01/2009	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 9

US Army Corps of Engineers

Typhoon Melor Population Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!

Island	Population per Island	Geographic Unit	Population per Geographic Unit
COMMONWEALTH OF NORTHERN		SIAPAN	66,000
COMMONWEALTH	66,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Typhoon Melor Population Model

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

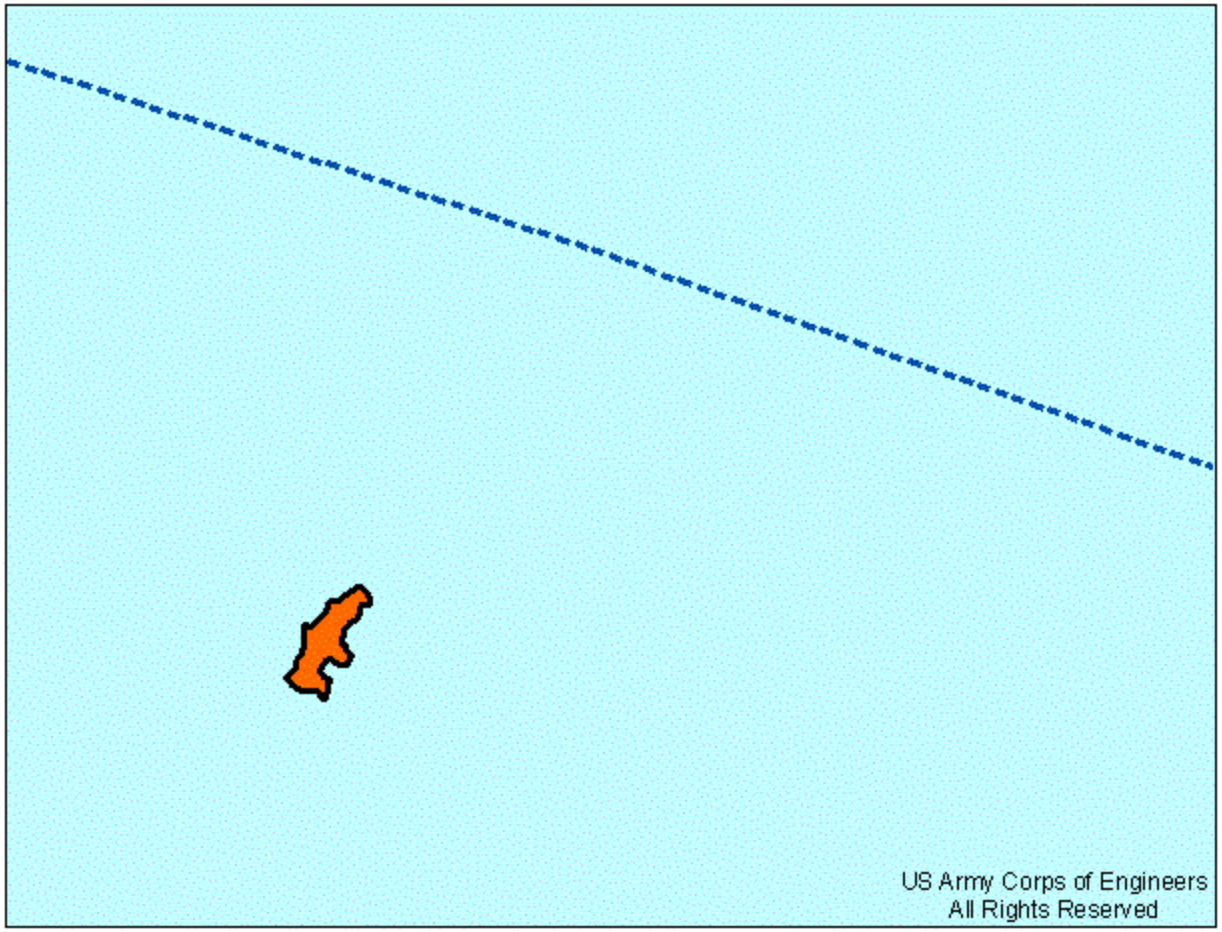
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Typhoon Melor Households Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Households Model Results

SAIPAN - 19,000

Model results per Geographic Unit on following page

This model is based on a Category 4 storm passing offshore north of Saipan.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm passing offshore north of Saipan. These projections are based on information from the NHC (1700 EDT 10/01/2009) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Typhoon Melor Households Model	
Generated By: Siemsen, LRL 2000 EDT 10/01/2009	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 9

US Army Corps of Engineers

Typhoon Melor Households Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!

Island	Households per Island	Geographic Unit	Households per Geographic Unit
COMMONWEALTH OF NORTHERN		SIAPAN	19,000
COMMONWEALTH	19,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Typhoon Melor Households Model

Generated By:
Siemsen, LRL 2000 EDT 10/01/2009

Sources:
HURREVAC
LRL-DEBRIS